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## CACAO, a laboratory for the production and the characterization fo radioactive thin layers

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CACAO, Chimie des Actinides et Cibles radioActives à Orsay, is a project of laboratory for the production and characterization of thin radioactive layers. The project is now launched and almost financed. It should be fully operational by the end 2010.

Besides the production of targets, CACAO aims to be a node of a kind of network of laboratories dedicated to find isotopes, but also to strengthen the know-how for the fabrication, and eventually to share installations.

### Summary

Motivations of a new laboratory dedicated to production and characterization of thin radioactive layers is 2-fold. The first one is of course the needs of physics programs: nuclear fuel cycle studies, but also astrophysics and studies related to super-heavy elements need radioactive targets (and especially actinide ones) to be done. The second one is related to the relative loss of skills, at least in Europe, in the production of thin radioactive layers. This is the reason why CACAO project aims to be a node in a network of installations and specialists of thin layers producers, and actinide chemists.

After presenting these motivations, the CACAO project of new laboratory for radioactive targets will be presented. Difficulties related to preparation of such layers will be presented, as well as the constraints we had to face during the elaboration of the project, and their consequences. To conclude, the planning of the project will be presented.

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